

## Oxidation Numbers

Summary: An atom connected to a **more** eN atom = +1

An atom connected to a **less** eN atom = -1

An atom connected the **same** atom = 0

\* Number of bonds must be taken into account

\* Charge is also incorporated into oxidation number

Oxidation number  $\uparrow$  = Oxidized = reducing agent

Oxidation number  $\downarrow$  = reduced = oxidizing agent

Examples:  $O=C=O$

+4



## Oxidation Reactions

Summary: 1° alcohol  $\xrightarrow{[Co]}$  aldehyde  $\xrightarrow{[Co] H_2O}$  carboxylic acid



1° alcohol  $\xrightarrow{[Co]}$  aldehyde must be dry

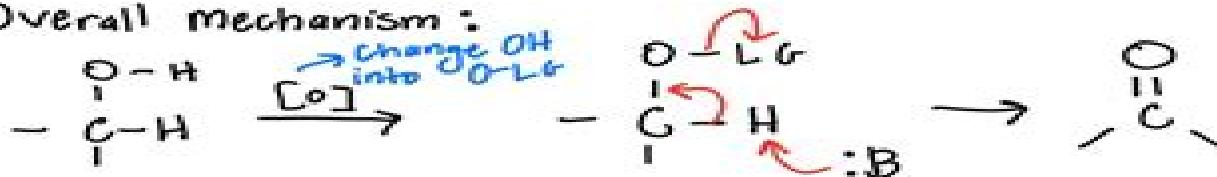
2° alcohol  $\xrightarrow{[Co]}$  ketone can be either wet or dry



3° alcohol  $\xrightarrow{[Co]}$  no further oxidation



Overall mechanism:



# Organic Chem Phenol Study Guide

**David R. Klein**

## Organic Chem Phenol Study Guide:

**Organic Chemistry, 5e Student Study Guide and Solutions Manual** David R. Klein,Laurie S. Starkey,2025-03-18

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